

WHAT IS CLAIMED IS:

1. A device comprising:
a cantilevered head assembly including a cantilevered body and head; and
a flow control device to provide blowing or suction from a blower
5 assembly or vacuum assembly proximate to the cantilevered head
assembly.
2. The device of claim 1 wherein the cantilevered head assembly includes a
leading edge and a trailing edge forming an upstream region proximate to the
10 leading edge and a downstream region proximate to the trailing edge and the
flow control device includes a nozzle coupleable to a pressure source or blower to
supply pressure proximate to the downstream region of the cantilevered head
assembly.
- 15 3. The device of claim 1 including a plurality of cantilevered head assemblies
coupled to an actuator having a head stack height and the flow control device
includes a nozzle having an elongated outlet having a dimension corresponding
to the head stack height.
- 20 4. The device of claim 2 and including a vacuum assembly to provide the
suction proximate to the upstream region of the cantilevered head assembly.
5. The device of claim 1 wherein the cantilevered head assembly includes a
leading edge and a trailing edge forming an upstream region proximate to the
25 leading edge and a downstream region proximate to the trailing edge and the
flow control device includes the vacuum assembly proximate to the upstream
region of the cantilevered head assembly.
6. The device of claim 1 wherein the head of the cantilevered head assembly
30 includes one of a servo head, a write head, a read head or a read/writer head.

7. The device of claim 1 and further comprising:
a flow sensor coupled to a controller operably coupled to the flow control
device to provide flow feedback to control operation of the flow
control device.

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8. The device of claim 7 wherein the flow control device includes the blower
assembly and the cantilevered head assembly includes a leading edge and a
trailing edge forming an upstream region proximate to the leading edge and a
downstream region proximate to the trailing edge and the flow sensor is
10 positioned relative to the downstream region to provide the flow feedback to
control operation of the blower assembly proximate to the downstream region of
the cantilevered head assembly

9. The device of claim 7 wherein the flow control device includes the vacuum
15 assembly and the cantilevered head assembly includes a leading edge and a
trailing edge forming an upstream region proximate to the leading edge and a
downstream region proximate to the trailing edge and the flow sensor is
positioned relative to the upstream region to provide the flow feedback to control
operation of the vacuum assembly proximate to the upstream region of the
20 cantilevered head assembly

10. A servo writer apparatus comprising:
a cantilevered head assembly including a servo head to write a servo
pattern or information on a disc or discs supported on a spindle
25 hub; and
a flow control device to provide pressure or suction proximate to a flow
field of the disc or discs.

11. The servo writer apparatus of claim 10 wherein the flow control device
30 includes a blower nozzle coupleable to a pressure source or blower to supply
pressure.

12. The servo writer apparatus of claim 11 and further including a vacuum assembly to provide a vacuum proximate to the flow field.
13. The servo writer apparatus of claim 10 wherein the flow control device
5 includes a vacuum assembly to provide the suction proximate to the flow field.
14. The servo writer apparatus of claim 10 wherein the spindle hub is coupled to a spindle block to removably support a plurality of discs in a vertical position relative to a base or platform of the servo writer apparatus and the servo writer
10 apparatus includes a plurality of cantilevered head assemblies to record servo information or patterns on the plurality of discs.
15. The servo writer apparatus of claim 11 wherein the servo writer apparatus includes an air dam downstream of the cantilevered head assembly and an air
15 stripper upstream of the cantilevered head assembly and the blower nozzle is positioned relative to a gap between the air dam and the air stripper.
16. The servo writer apparatus of claim 11 and comprising a shroud proximate to a downstream region of the cantilevered head assembly and the blower nozzle
20 is orientated to provide pressure through at least one passageway of the shroud.
17. The servo writer apparatus of claim 10 wherein the spindle hub is coupled to a spindle block and the cantilevered head assembly is coupled to a servo block and the spindle block and the servo block are operable between a retracted
25 position to load and unload disc or discs and a merged position to encode servo information.
18. The servo writer apparatus of claim 10 and further comprising a flow sensor to provide flow feedback for the flow control device.

19. The servo writer apparatus of claim 13 wherein the vacuum assembly provides suction through a passage in an air stripper.
20. A method comprising steps of:
- 5 rotating a disc or data storage media to provide a flow path across a cantilevered head assembly; and
- supplying pressure from a blower assembly or suction or vacuum pressure from a vacuum assembly proximate to the cantilevered head assembly.
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21. The method of claim 20 and comprising the step of:
- writing servo information or a servo pattern to the disc or data storage media.
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22. The method of claim 20 and further comprising the step of
- supplying the vacuum pressure from the vacuum assembly proximate to an upstream region of the cantilevered head assembly or the pressure from the blower assembly proximate to a downstream region of the cantilevered head assembly.
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23. The method of claim 20 and further comprising the step of:
- adjusting pressure parameters of the blower assembly or the vacuum assembly based upon feedback from a flow sensor.
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24. The method of claim 21 and further comprising the step of
- loading the disc or data storage media on a spindle hub prior to rotating the disc or data storage media and unloading the disc or data storage media after writing servo information to the disc.
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25. The method of claim 21 and comprising an air dam and a stripper and comprising the step of:

retracting the air dam and the stripper to load and unload the disc or data
storage media and closing the air dam and the stripper to write
5 servo information or patterns to the disc or data storage media.

26. The method of claim 20 and comprising:

directing pressure from the blower assembly through a passage in a shroud
positioned proximate to an edge of the disc or data storage media.
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27. The method of claim 25 and comprising the step of providing the vacuum
or suction from the vacuum assembly through a passage of the air stripper.